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## 822 Effect of cardiopulmonary bypass and surgical intervention on the natriuretic hormone system in children

John M. Costello, MD, Carl L. Backer, MD, Paul A. Checchia, MD, Constantine Mavroudis, MD, Ralf G. Seipelt, MD, and Denise M. Goodman, MD, MSc, Chicago, Ill, and St Louis, Mo

After CPB and surgical intervention in children, atrial natriuretic peptide levels transiently decrease. The extent of the increase in brain natriuretic peptide levels is associated with longer CPB time. The biologic activity of the natriuretic hormone system transiently decreases, but this change was not associated with clinical indicators of postoperative morbidity.

## 830 Cerebral oxygen balance is impaired during repair of aortic coarctation in infants and children

Anthony Azakie, MD, Jessica Muse, BS, Marisa Gardner, BS, Kimberly L. Skidmore, MD, Steven P. Miller, MD, Tom R. Karl, MD, and Patrick S. McQuillen, MD, San Francisco, Calif

NIRS detects significant impairment of cerebral oxygen balance during clamping of the proximal transverse aorta for repair of aortic coarctation in infants and children.

## 837 Postoperative lactate concentrations predict the outcome of infants aged 6 weeks or less after intracardiac surgery: A cohort follow-up to 18 months

Po-Yin Cheung, MBBS, PhD, FRCP, Natalie Chui, BSc, Ari R. Joffe, MD, FRCP, Ivan M. Rebeyka, MD, FRCS, Charlene M. T. Robertson, MD, FRCP, and the Western Canadian Complex Pediatric Therapies Project, Follow-up Group, Edmonton, Alberta, Canada

Serial lactate determination accurately predicts survival and may help differentiate survivors with adverse outcome from those with intact neurodevelopment in early childhood.

## Cardiothoracic Transplantation (TX)

## 844 Cardiac xenotransplantation: Recent preclinical progress with 3-month median survival

Christopher G. A. McGregor, MB, FRCS, William R. Davies, MD, Keiji Oi, MD, Sumeet S. Teotia, MD, Johannes M. Schirmer, MD, Jack M. Risdahl, DVM, PhD, Henry D. Tazelaar, MD, Walter K. Kremers, PhD, Randall C. Walker, MD, Guerard W. Byrne, PhD, and John S. Logan, PhD, Rochester, Minn

Median graft survival after heterotopic transgenic pig-to-baboon cardiac xenotransplantation (n = 7) was 96 days, the longest survival to date. No consumptive coagulopathy, cellular infiltration, or posttransplantation lymphoproliferative disease was observed. Duplication of these results in the orthotopic position could bring cardiac xenotransplantation toward clinical application.

## 852 Pirfenidone inhibits inflammatory responses and ameliorates allograft injury in a rat lung transplant model

Hanzhong Liu, MD, PhD, Peter Drew, MD, Yanping Cheng, BA, and Gary A. Visner, DO, Gainesville, Fla

Treatment with pirfenidone, a new nonpeptide drug with potent anti-TNF- $\alpha$  activity, promoted protection against acute allograft injury through decreased neutrophil recruitment and iron accumulation in a rat model of orthotopic lung transplantation.

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**859 Outcome of lung transplantation for patients requiring concomitant cardiac surgery**  
*Kalpaj Parekh, MD, Bryan F. Meyers, MD, G. Alexander Patterson, MD, Tracey J. Guthrie, RN, Elbert P. Trulock, MD, Ralph J. Damiano, Jr, MD, and Nader Moazami, MD, Iowa City, Iowa, and St Louis, Mo*


Outcomes of lung transplantation requiring concomitant cardiac surgery were compared with outcomes of lung transplantation alone. Except for longer ventilation and ICU times in the group having cardiac surgery, overall morbidity, mortality, and lung allograft function were similar. Limited cardiac surgery can be performed during lung transplantation without adverse sequelae.

**864 Glutathione improves the function of porcine pulmonary grafts stored for twenty-four hours in low-potassium dextran solution**  
*Sebastian-P. Sommer, MD, Bernhard Gohrbandt, MD, Stefan Fischer, MD, MSc, Jens M. Hohlfeld, MD, Gregor Warnecke, MD, Murat Avsar, MD, and Martin Strüber, MD, Hannover, Germany*

Current techniques of clinical lung graft preservation now use LPD for flush perfusion. Despite improved outcome with the use of LPD, ischemia-reperfusion injury remains a significant problem. By using a preclinical large animal lung transplant model, we demonstrate that the addition of the free oxygen-derived radical scavenger glutathione to LPD significantly improves graft preservation after 24 hours of cold storage.

<b>Clinical-Pathologic Conference</b>	<b>870 Clinical-pathologic conference in general thoracic surgery: Cardiac lymphoma</b> <i>Richard Battafarano, Richard Lee, G. Alexander Patterson, Thoralf Sundt, Fernando Gutierrez, Farrokh Dehdashti, Jon Ritter, Ramaswamy Govindan, and Jeffrey Bradley, St Louis, Mo</i>
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<b>Historical Perspectives</b>	<b>875 Historical Perspectives of The American Association for Thoracic Surgery: Alton Ochsner, MD (1896-1981)</b> <i>Michael E. DeBakey, MD, Houston, Tex</i>
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<b>Brief Communications</b>	<b>877 Expression of the erythropoietin receptor in human heart</b>  <i>Reinhard Depping, PhD, Katsuhiko Kawakami, MD, Hartmut Ocker, MD, Johannes M. Wagner, MD, Matthias Heringlake, MD, Axel Noetzel, MD, Hans-Hinrich Sievers, MD, and Klaus F. Wagner, MD, Luebeck and Duisburg, Germany</i>
	<b>879 The beneficial role of left ventricular assist device destination therapy in the reversal of contraindications to cardiac transplantation</b> <i>Cliff K. Choong, FRACS, Michael K. Pasque, MD, Kim Shelton, RN, Beth Kehoe-Huck, RN, Gregory A. Ewald, MD, Douglas Horstmanhof, MD, and Nader Moazami, MD, St Louis, Mo</i>
	<b>881 Bridging to transplantation with left ventricular assist devices: Outcomes in patients aged 60 years and older</b> <i>Veli K. Topkara, MD, Nicholas C. Dang, MD, Timothy P. Martens, MD, Faisal H. Cheema, MD, Judy F. Liu, BA, Michael Argenziano, MD, and Yoshifumi Naka, MD, PhD, New York, NY</i>

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